Format No.CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-08-01** **Date: 10-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-08-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg, Min)	275.5	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Prepared by
Harshitha

FOR CIVIL Pro.

R KARTHIK RECHAN
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-08-01** **Date: 06-09-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-08-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
1	7 Days	37.5N/mm^1	Not less than 37 N/mm^1
2	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-08-01** **Date: 11-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	322	322	2.1	97.9	90-100
3	20 mm	5643	5965	39.8	60.2	30-70
4	10 mm	4663	10628	70.9	29.1	10-35
5	4.75 mm	4025	14653	97.7	2.3	0-5
6	Pan	347	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-08-01** **Date: 11-08-17**

Sample ID No : 2017-08-08-01-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.55	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.21	_

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Harshitha

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Quality Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ದಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-08-01** **Date: 11-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-08-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	322	322	2.1	97.9	90-100
3	20 mm	5643	5965	39.8	60.2	30-70
4	10 mm	4663	10628	70.9	29.1	10-35
5	4.75 mm	4025	14653	97.7	2.3	0-5
6	Pan	347	15000	100.0	0	---

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Format No:CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-08-08-01** **Date: 11-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids;Water Absorption
Date of test	:	08-08-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	86	86	8.6	91.4	90-100	90-100	90-100	95-100
3	2.36 mm	144	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	175	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	179	584	58.4	41.6	15-34	35-59	60-79	80-100
6	300 micron	185	769	76.9	23.1	5-20	8-30	12-40	15-50
7	150 micron	132	901	90.1	9.9	0-10	0-10	0-10	0-15
8	Pan	99	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-08-01** **Date: 11-08-17**

Sample ID No : 2017-08-08-01-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.75	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-08-08-01** **Date: 10-08-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Reserve Fund For Emergency works in Dasarahalli ward no.15 Dasarahalli Sub Division (Providing Pot Hole filling of CC Roads and De-silting of Kempegowda Nagara 5th cross & other cross roads in T.Dasarahalli in ward no.15)
Agency	:	Sri.Eregowda S.M, No.288, 5th cross, 6th 'A' Main Road, Bhuvaneshwarinagara, T.Dasrahalli, Bangalore-560057.
Customer's Reference	:	EE/DD/WO/003/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-08-17
Sample ID No	:	2017-08-08-01-04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-08-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	548	680	21.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	574	690	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.888	595	698	19.0%	Satisfactory	Satisfactory

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